

**T-34C AIRCRAFT COCKPIT PROCEDURES TRAINER, DEVICE 2C42****TRAINING CATEGORY:**

AVIATION (Cockpit Checkout Procedures)

**ORIGINATING AGENCY:**

DCNO/AIR

**SECURITY CLASSIFICATION:**

Device 2C42 is unclassified.

**INTENDED USE:**

The T-34C Aircraft Cockpit Procedures Trainer is used to train Naval trainee aviators in all T-34C normal and emergency procedures, cockpit familiarization and cockpit orientation.

**FUNCTIONAL DESCRIPTION:**

Device 2C42 is a portable ground based trainer mounted on a castored platform. The device shall consist of the following major components:

1. Trainee Station: the trainee station shall be a replica of the front cockpit of the T-34C aircraft. All instruments, indicators, controls shall be shown as in actual aircraft. Controls readily visible to the trainee, such as landing gear and engine controls and the like shall accurately duplicate actual aircraft in appearance and feel.
2. Instructor Station: the instructor station shall consist of a control console and station controls, a work surface and chair. A functional alphanumeric keyboard shall be provided to introduce failures and malfunctions into the system. When a failure or malfunction is introduced, the aircraft performance and instruments shall respond in a manner typical of the T-34C aircraft. A freeze control shall be provided for the instructor to freeze the training problem. A red indicator light shall illuminate during freeze. Removal of freeze shall reinstate problem to its former condition.

## DIRECTORY OF NAVAL TRAINING DEVICES

3. Computing Equipment (Processor System): the processor system shall consist of the computer peripheral equipment, interface equipment, and all software required to ensure real-time processing of all displays and operational programs stability of solution of the trainer system equations. It shall include all central processor units, memory units, mass storage units, and all integral power supplies.

Maintenance programs shall test the operation of both the computer and the training simulator equipment.

## PHYSICAL INFORMATION:

All units shall be capable of passing through a doorway measuring 6' wide by 8' high.

Interior and exterior colors shall be the same as T-34C aircraft.

## ENVIRONMENTAL CHARACTERISTICS:

Climatic conditions (non-operating and storage) shall be 0 degrees to + 130 degrees F.

## INSTALLATION AREA:

Classroom.

## POWER REQUIREMENTS:

The equipment shall be designed to operate from a power source of 120 volts, single phase, 60 Hz power.

## REFERENCE PUBLICATIONS: (NOT SUPPLIED)

NATOPS Flight Manual, Naval Model T-34C aircraft.

## CONTRACT IDENTIFICATION:

Manufactured by Beech Aircraft Corp., Wichita, KS under NAVTRASYSCEN Contract No. N00019-75-C-0444-A00002.

## LOCAL STOCK NUMBER:

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